Quick Guide to Food Sample Submission Information and Procedures

The Division of Food and Drugs must be contacted prior to submitting all samples.

Phone Numbers

Division of Food and Drugs: 617-983-6712 617-983-6770 (fax)

Food Microbiology Lab: 617-983-6610 Analytical Chemistry Laboratory: 617-983-6653 State Laboratory Institute 305 South Street Jamaica Plain, MA 02130

	Food Microbiological Laboratory	Analytical Chemistry Laboratory
Available Tests	Procedures involving "Counts":	Metals and elements in foods and beverages
Available Tests	Procedures involving "Counts": Standard Plate Count (SPC) also called Aerobic Plate Count (APC) Total coliform count Fecal coliform count Staphylococcus aureus count Bacillus cereus count Viable yeast count Viable mold count Clostridium perfringens count Total E. coli count (special request) Detection (viable organisms): Clostridium botulinum (special request) Salmonella spp. E.coli O157:H7 Campylobacter spp. Shigella spp. Vibrio spp. Yersinia spp. Listeria monocytogenes Shiga toxigenic E. coli other than O157:H7 (STEC) (special request) Toxin testing: Paralytic Shellfish Poisoning (PSP) Botulinal toxin (special request) Sterility confirmation: Canned goods Infant food Filth analysis: Extraneous material Insect identification Phosphatase test for rodent droppings Rodent urine (ultraviolet light) Note: The Food lab cannot test for viruses, parasites or the presence of blood in food or beverages.	 copper lead arsenic mercury others as needed Industrial chemicals Pesticides in fruit and vegetables organophosphates organochlorines carbamates Rodenticides Polychlorinated biphenyls (PCBs) Petroleum distillates (fuels) Unusual tastes or odors in foods and beverages Volatile organic compounds (VOCs) Solvent-like odors in food or beverages Benzene Ethylbenzene Toluene Xylene Others as needed Surfactant screen Anionic or cationic determination of surfactant Preservatives in Beverages (labeling issues) Benzoic acid Sorbic acid Sulfite testing in food products Biogenic amines (histamine) testing in fish for scombroid poisoning Seafood toxins PSP Domoic acid Testing products for evidence of tampering Organoleptic testing
Appropriate	 Samples associated with investigations of suspect 	 Pill identification (medications) Chemical spot tests Volatile and semi-volatile comparisons pH testing Injury or illness due to suspect foreign
Appropriate Samples	 Samples associated with investigations of suspect foodborne illness involving 2 or more people Samples associated with a single <i>laboratory</i> confirmed case if the suspect food was eaten within the incubation period Samples which may be associated with one or more cases of botulism Raw ground beef or meat if associated with confirmed case of E. coli O157:H7 Suspect illnesses related to baby foods or formulas 	 Injury or liness due to suspect foreign chemical substance in food: ONE CASE is often enough to warrant an examination Pills or capsules found in food or beverage Unusual chemical odor or taste with or without injury or illness Finfish samples associated with histamine (scombroid) poisoning Shellfish associated with suspect PSP or domoic acid poisoning

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Sample Collection Procedures

- Keep the sample in the original container if possible.
- Use sterile containers and do not touch the inside of the container. However, if a sterile container is not available, any clean container which can be tightly sealed may be used.
- Use sterile utensils, tongs, spoons, etc, if available. If not available, other clean ustensils can be used.
- Make sure caps are tight to prevent leakage.
- If multiple samples are suspected pack each separately. Do not commingle individual samples.
- Whirlpack bags can be used for solid foods but should not be used for liquids.
- Collect adequate amounts: 100-150 grams or milliliters (4-6 oz) if available.
- When collecting liquid samples, fill the container no higher than ¾ full in order to allow for proper mixing of the sample.
- When collecting water from spigots, let the water run for 2 minutes before collecting.
- Label all samples clearly with waterproof ink and labels.
- ➤ If the sample is refrigerated, keep it cool (<41° F) until submission. Gel packs are usually adequate.
- If the sample is frozen, keep it frozen.
- ➤ Perishable foods should be refrigerated and kept cold (< 41° F).</p>
- If a sample for microbiological testing cannot be submitted for several days the sample can be frozen.

- Keep the sample in the original container if possible or consult DFD or lab about appropriate container.
- Make sure caps are tight to prevent leakage.
- Collect control samples.
- Submit samples as soon as possible. If there is a delay, consult the lab about whether the sample should be frozen or refrigerated. When in doubt, keep the sample in the refrigerator.
- ➤ **Histamine:** Finfish samples should be submitted right away or frozen immediately.

Sample Submission Procedures

Call DFD prior to submitting sample.

- Fill out sample submission form and give to Food Lab when samples are dropped off.
- Samples should be submitted to SLI by the local board of health. Consumers should not be told to drop off samples.
- Maintain temperature control of sample.
- Chain of custody should be described on a separate form (ie. the narrative page of an inspection report form)
- ➤ If the food sample is associated with suspect illness, submit Foodborne Illness Complaint Worksheet.
- The sample must be submitted ASAP, preferably in-person or by courier. Regular mail is not appropriate except for filth evaluation in nonperishable foods. Overnight mail can be used if sample is packed with sufficient gel packs to keep it cool.
- For pre-packaged foods or beverages, obtain the name and address of the manufacturer and/or distributor, product code, expiration or sell-by date and size and type of packaging.
- For pre-packaged foods or beverages, an unopened container of the same lot number should be submitted.

Call DFD prior to submitting sample.

- Submit a detailed description of the complaint with the sample.
- Submit the results of the environmental investigation.
- > Submit chain of custody information.
- Samples should be submitted to SLI by the local board of health. Consumers should not be told to drop off samples.
- Maintain temperature control of sample.
- Submit the sample in the original container if possible or consult DFD or lab about appropriate container.
- Control samples MUST be submitted with the suspect sample.
- For pre-packaged foods or beverages, obtain the name and address of the manufacturer and/or distributor, product code, expiration or sell-by date and size and type of packaging.